



SENSORS DIRECTORATE RECEIVES 1998 FEDERAL ENERGY AND WATER MANAGEMENT AWARD

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Payoff

The Sensors Directorate (SN) is saving the Air Force about \$378,000 annually in utility energy costs by implementing an aggressive energy conservation program.

Accomplishment

The Air Force Research Laboratory's (AFRL's) Sensors Directorate (SN) received the 1998 Federal Energy and Water Management Award for implementing an aggressive energy conservation program. The award is presented by the Department of Energy annually to an organization that demonstrates a significant reduction in energy or water use or expanded use of renewable energy, and implementation of effective low-cost, no-cost programs.

Background

The Sensors Directorate is headquartered in one of the largest laboratory facilities in the Air Force. Its multi-story, 275,000 square-foot complex, which is responsible for conducting research and development in support of Air Force reconnaissance, surveillance, and precision engagement and electronic warfare sensors applications, is a large energy consumer with annual utility budget averaging more than \$1.2 million. To reduce energy consumption, the SN established an energy conservation working group that included representatives from the 88th Civil Engineering Group, Four Seasons Environment Co., and Dayton Scientific, Inc. Their energy saving initiatives involved installing new and more efficient 100 horse power motors in the heating/cooling system, replacing 400-cycle electrical power generators, replacing 40-watt fluorescent tubes with 34-watt tubes, and retrofitting 240 fluorescent fixtures. Additional cost savings were achieved with the installation of 500 room occupancy sensors. The installation of 10 digital electronic meters enables the 88th Air Base Wing Energy Management Center to track facility energy utilization trends.